ABSTRACT

Synthetic hydrotalcites of the general formula

$$[M^{2+}_{1-x}M^{3+}_{x}(OH)_{2}]^{x+}[A^{n-}_{x/n}\cdot mH_{2}O]^{x-}$$

where M^{2+} is a divalent cation, M^{3+} is a trivalent cation and A^{n-} is an organic anion selected from straight chain carboxylates of C_{16} - C_{18} acids, carboxylates of aromatic acids, carboxylates of acrylic acid, unsaturated carboxylates of methacrylic acid, unsaturated carboxylates of vinylacetic acid and C_2 and higher organic acids containing heteroatoms such as nitrogen, phosphorous, sulfur and halogens are disclosed, along with methods of synthesis and uses.